

FIG. 1

09981803-101901
T06TOT-E08T8660

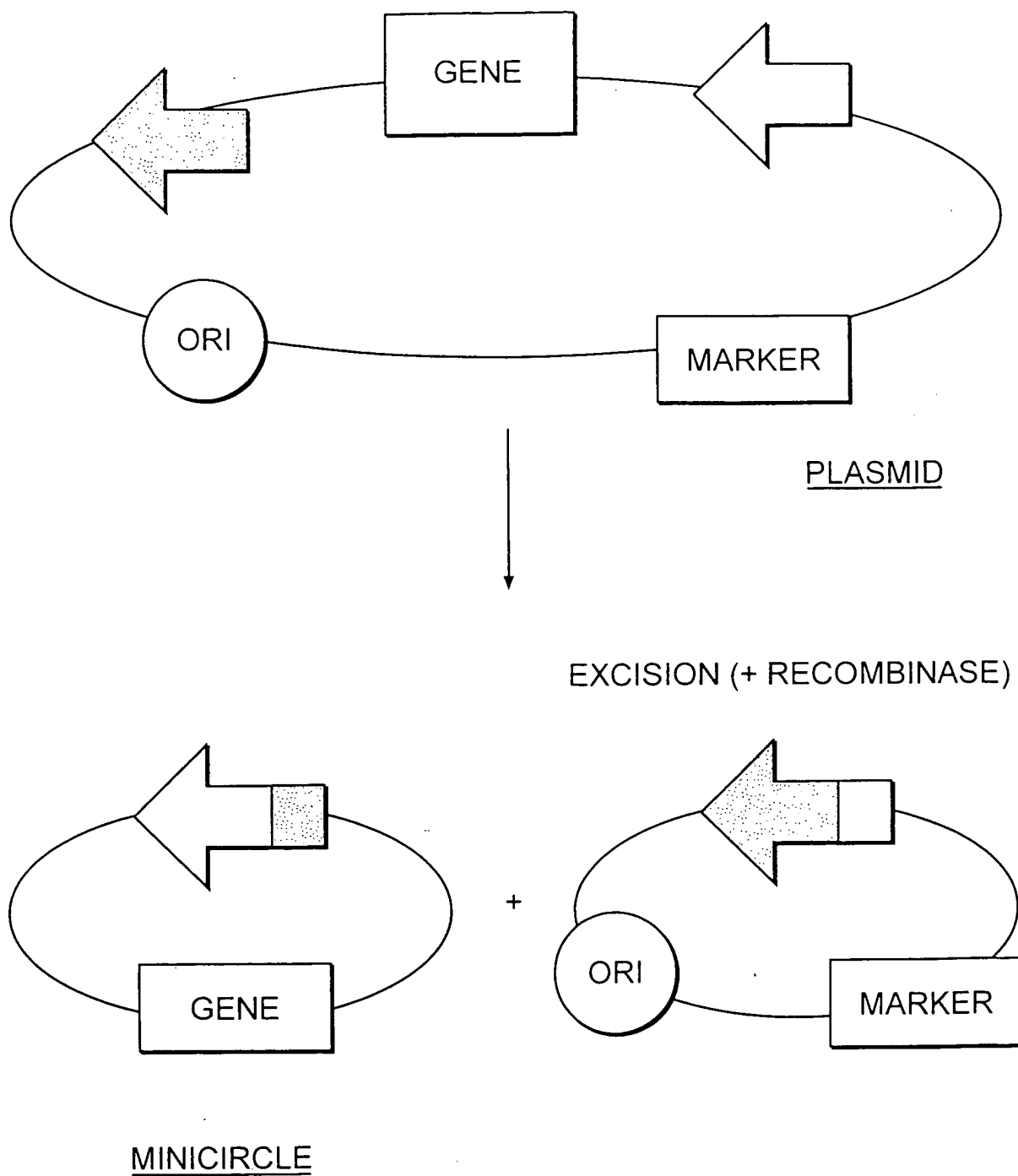


FIG. 2

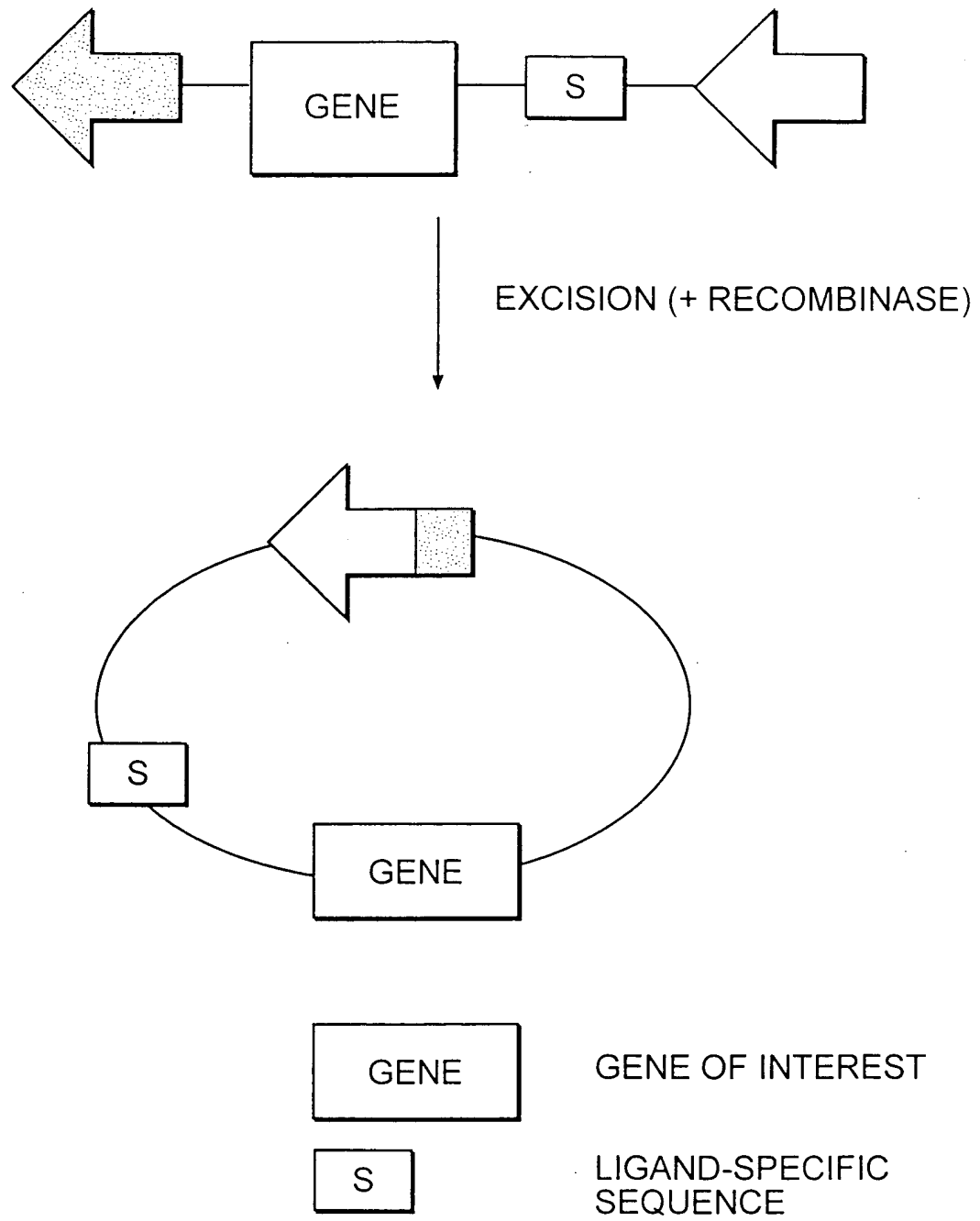


FIG. 3

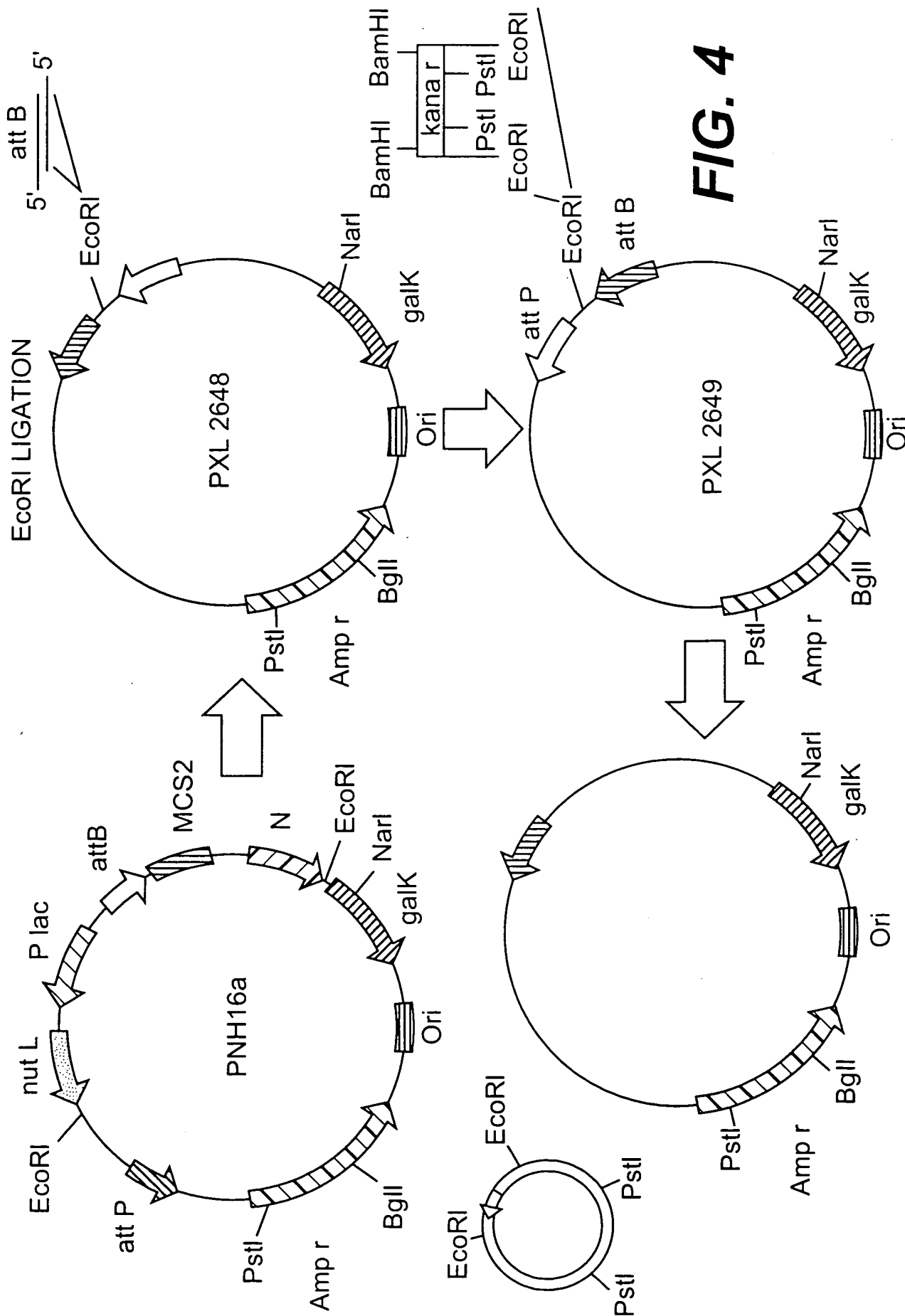
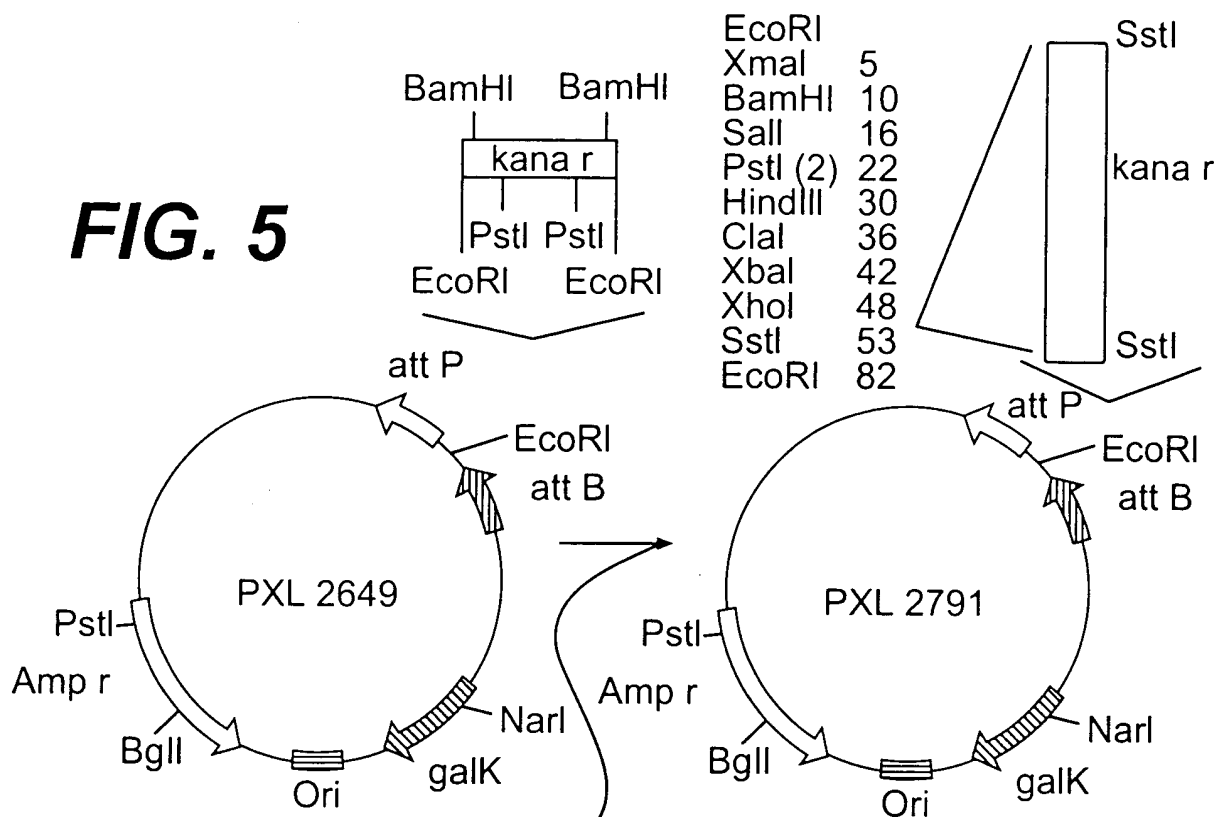


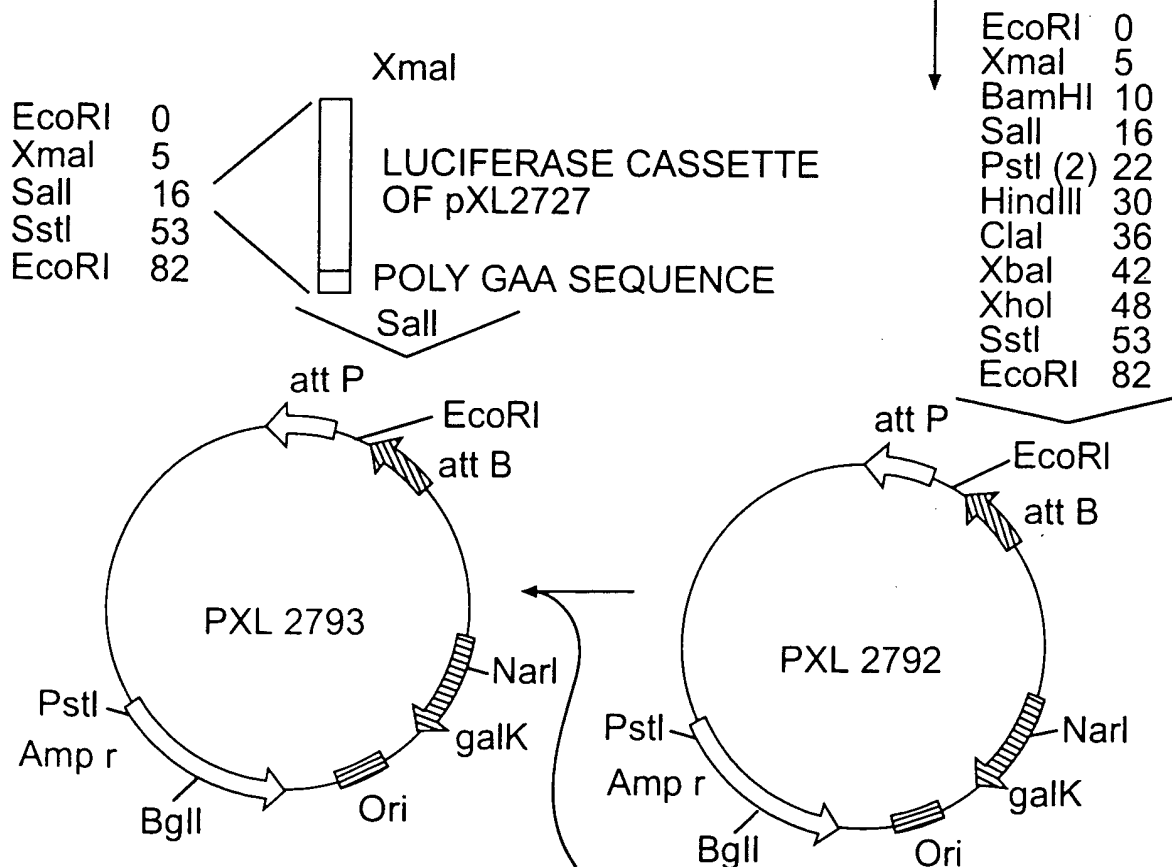
FIG. 4

FIG. 5



1- EcoRI DIGESTION OF pXL2649
2- CLONING OF THE EcoRI FRAGMENT OF PLASMID pXL1571 SET

DIGESTION OF PLASMID pXL2791 WITH SstI



1- DIGESTION OF pXL2792 WITH Sall AND XmaI
2- CLONING OF THE Sall-XmaI FRAGMENT OF PLASMID pXL2727

LUCIFERASE ACTIVITY OBTAINED ON NIH
3T3 CELLS

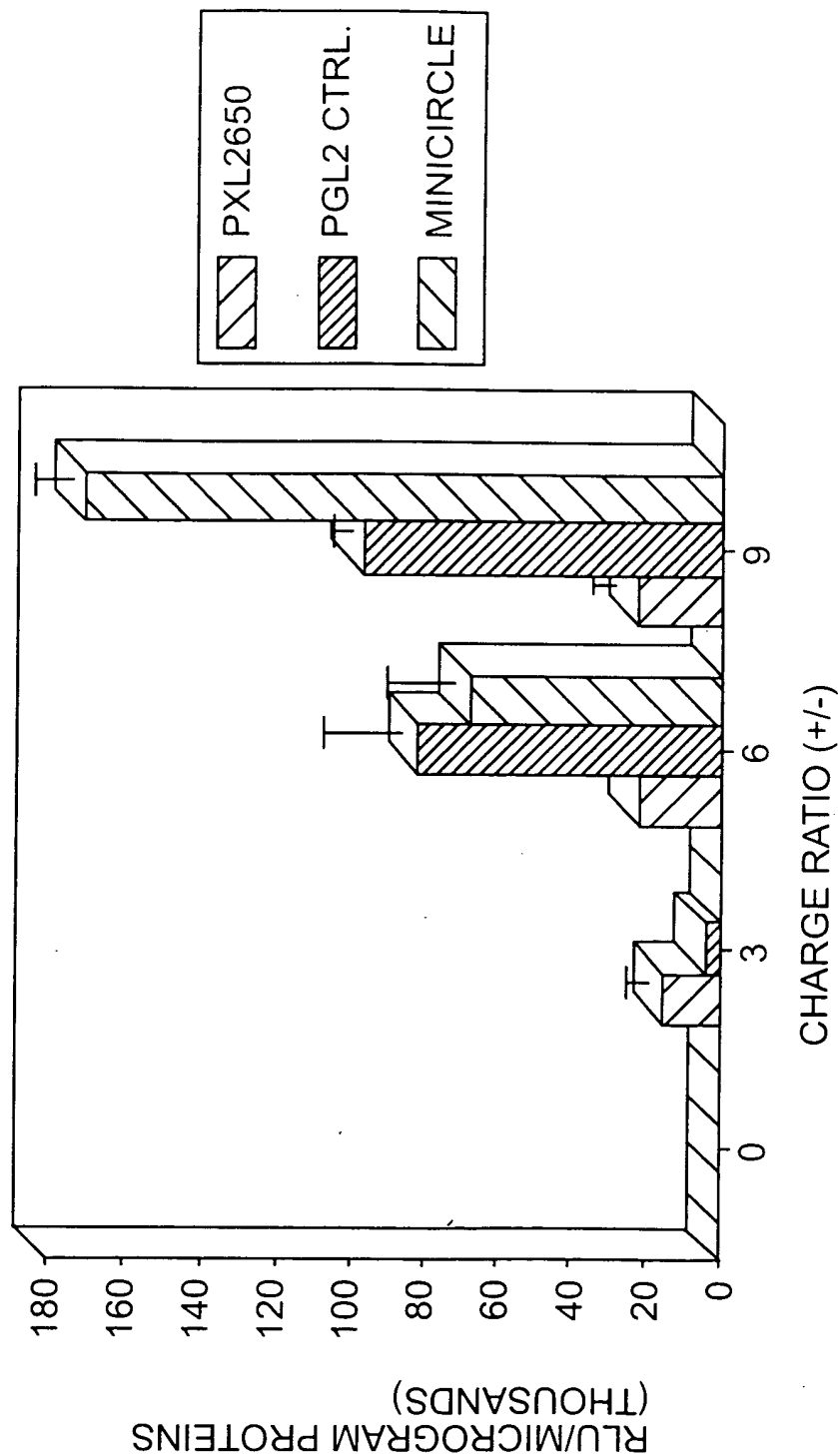


FIG. 6

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- 1 →
- 2 →
- 3 →
- 4 →
- 5 →
- 6 →

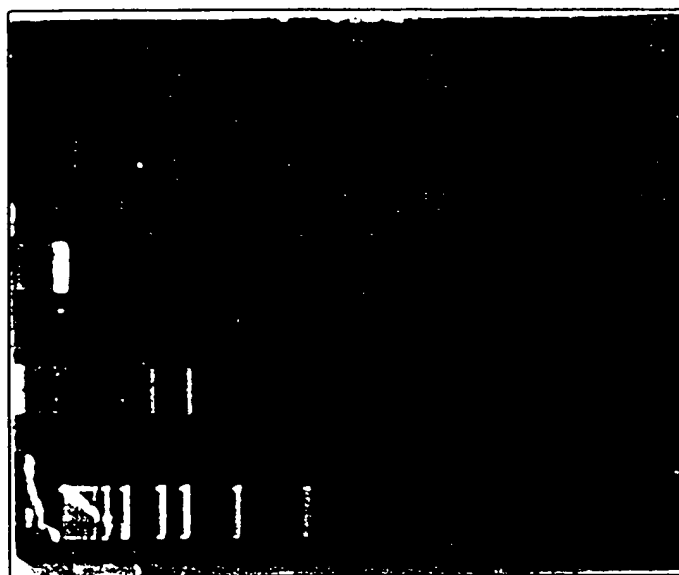
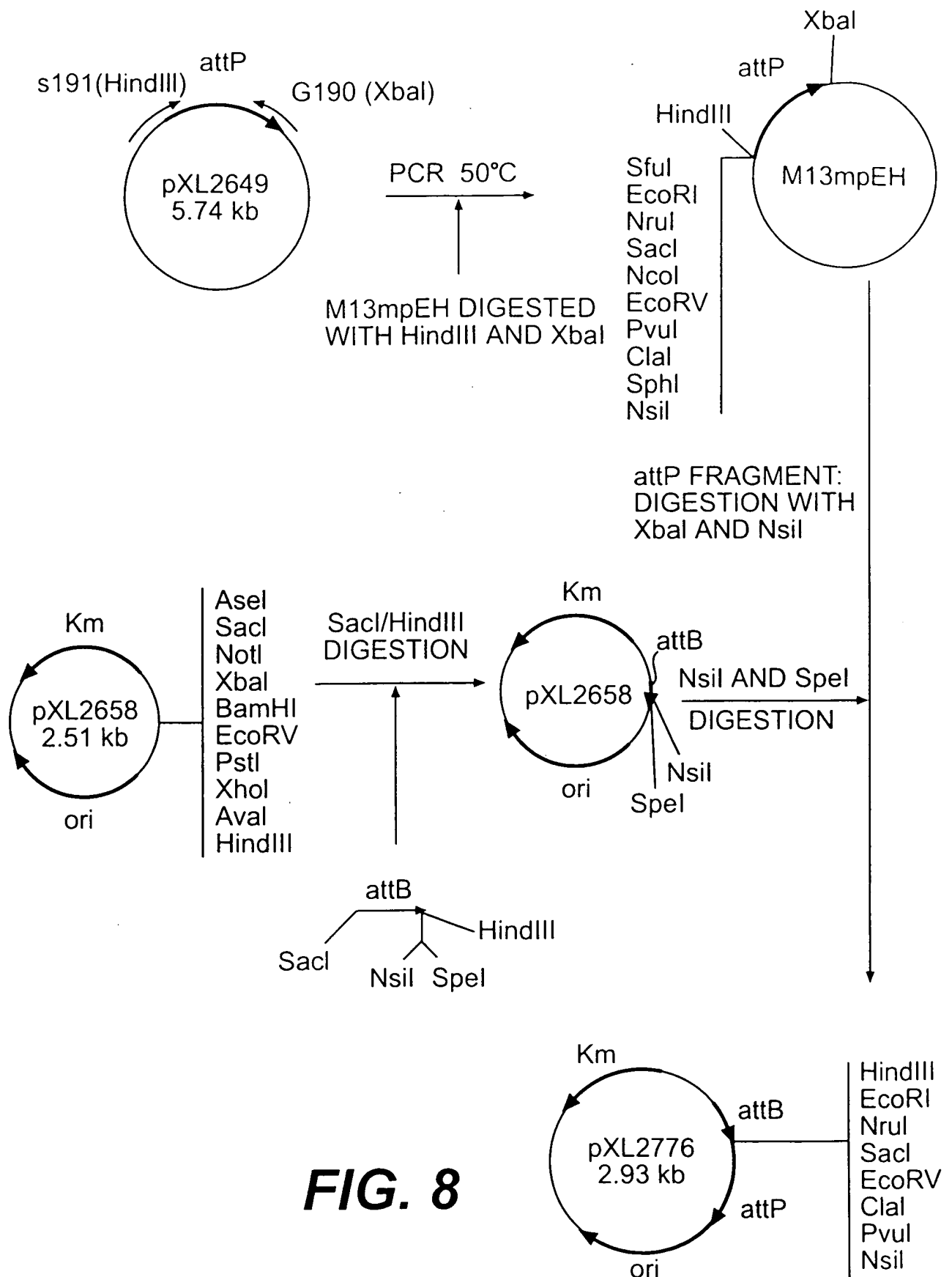


FIG. 7



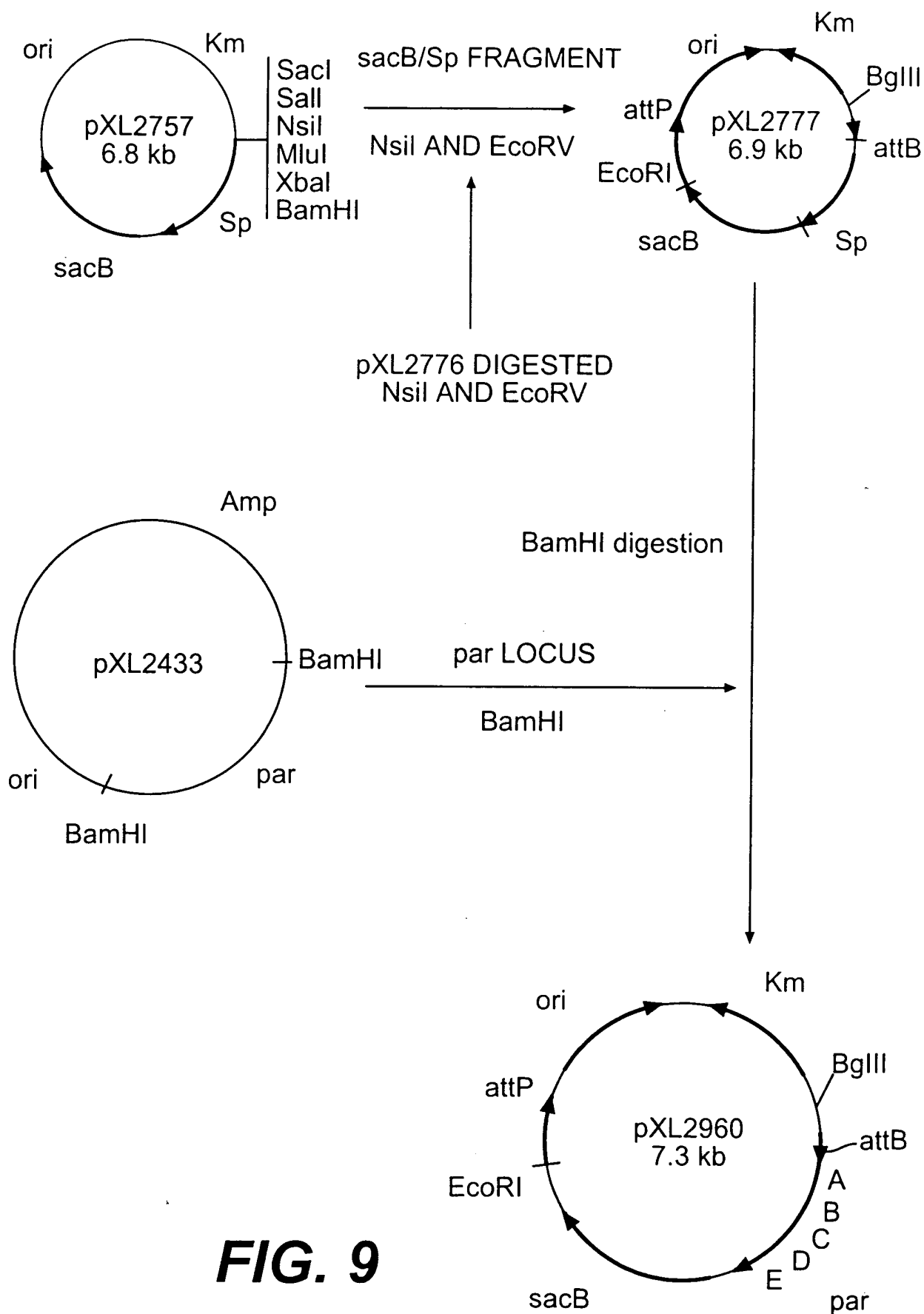


FIG. 9

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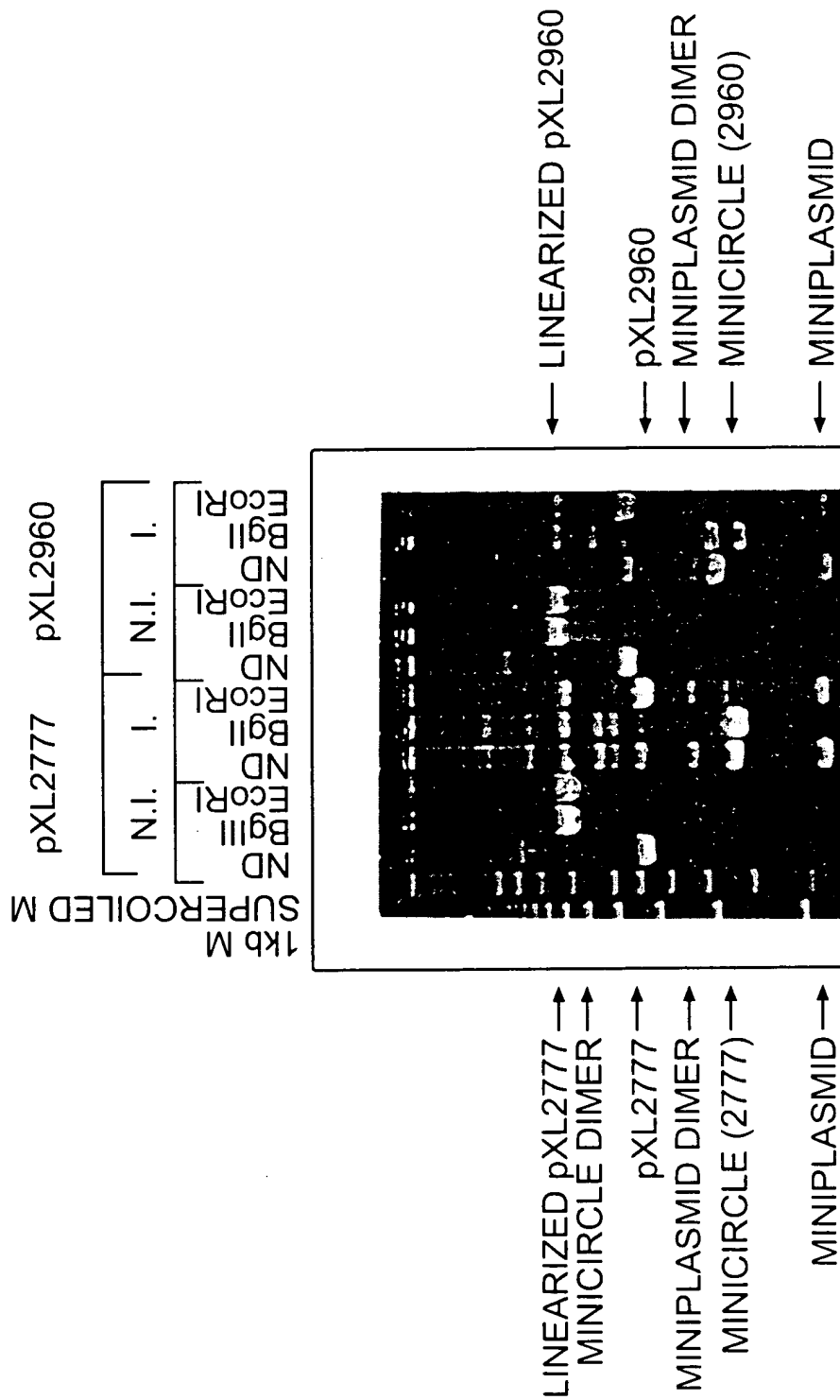


FIG. 10

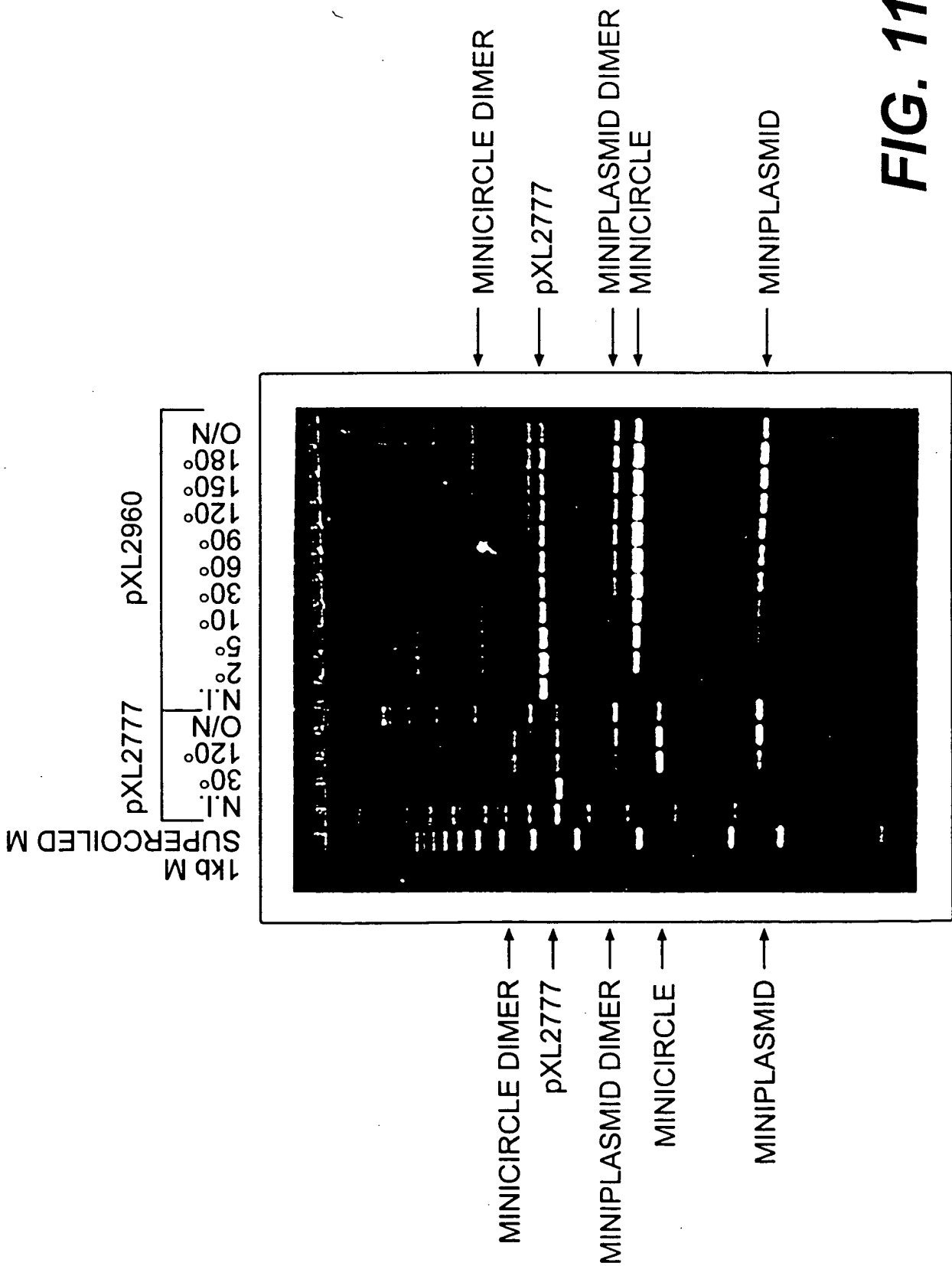


FIG. 11

Figure 12

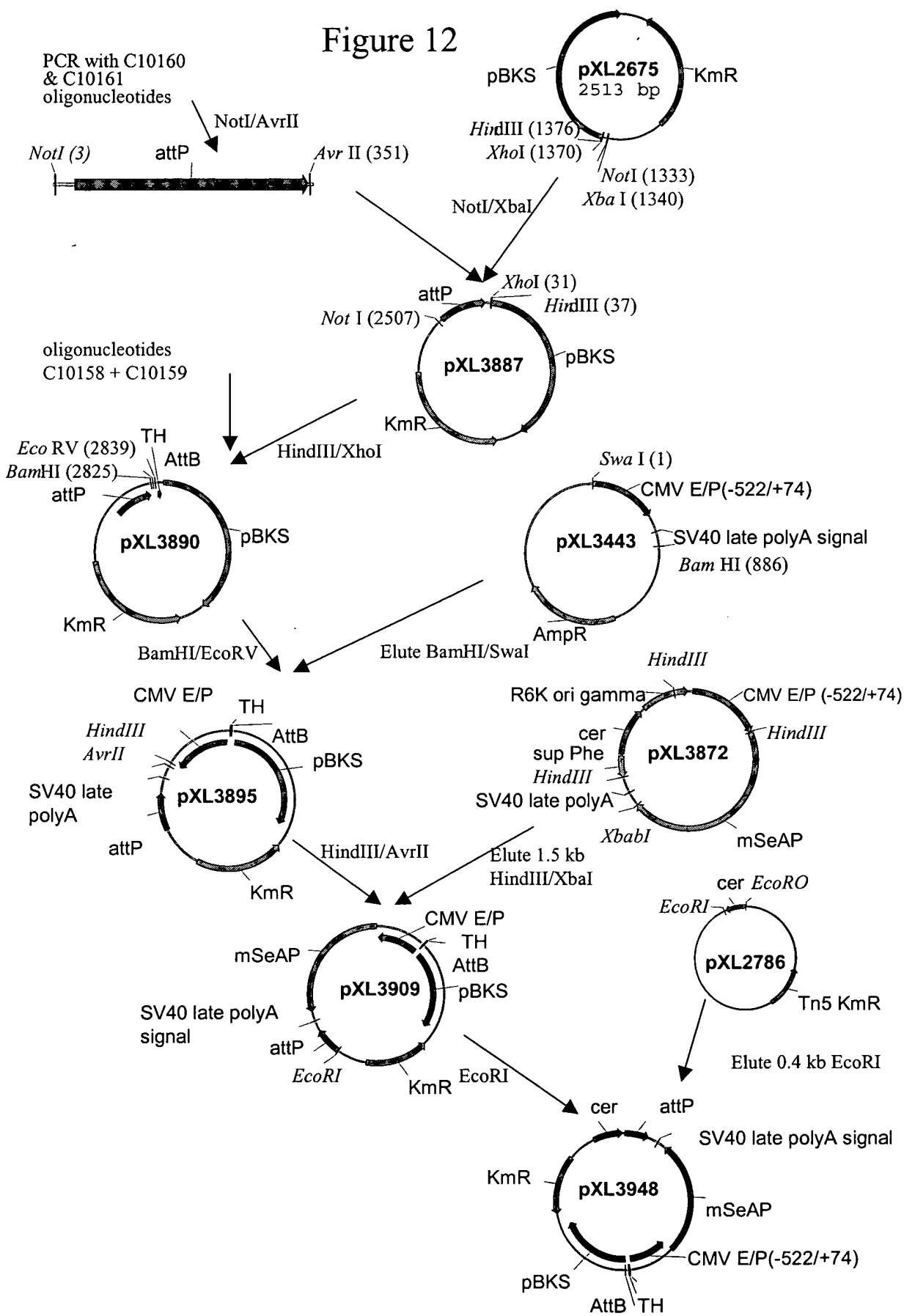
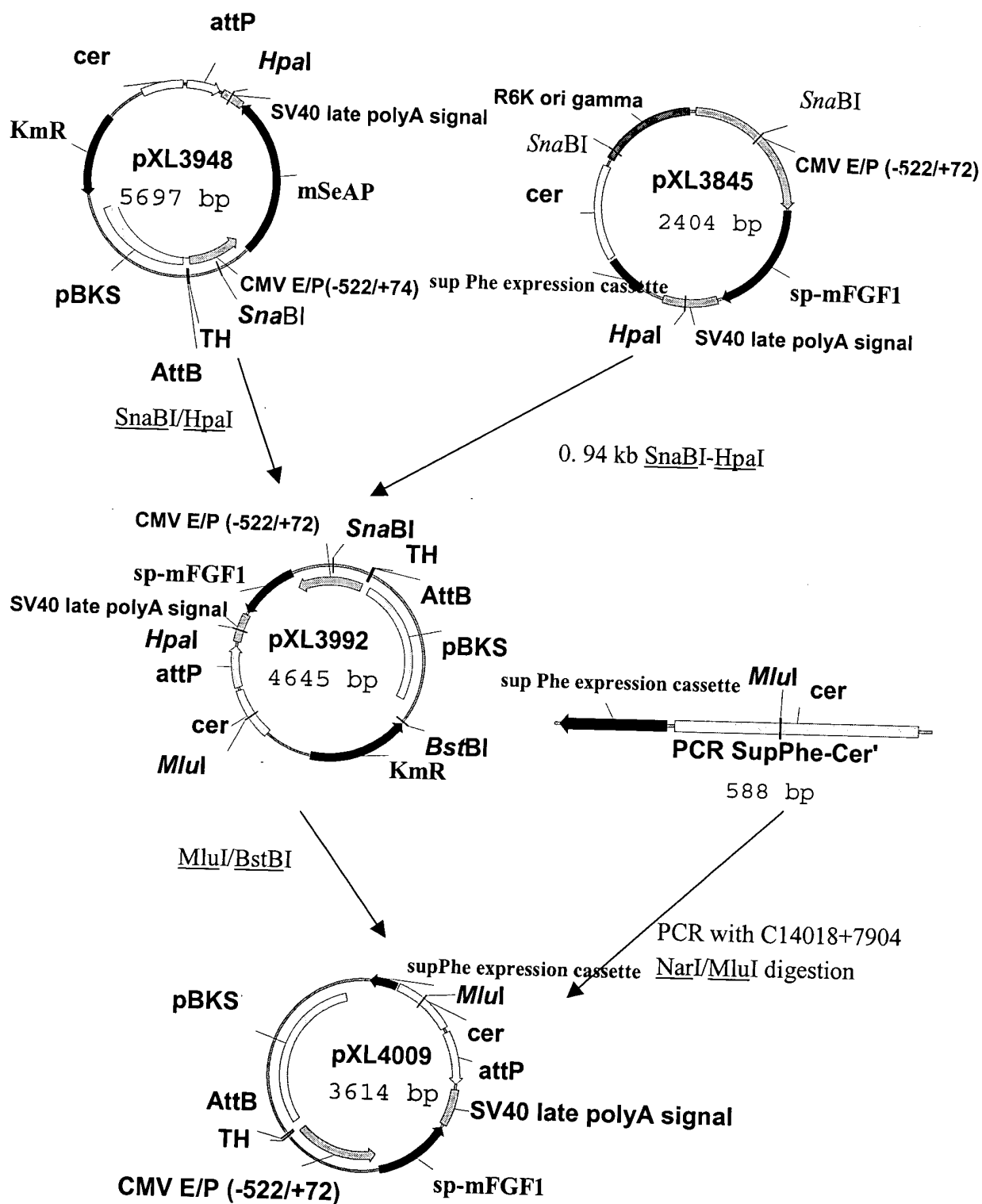
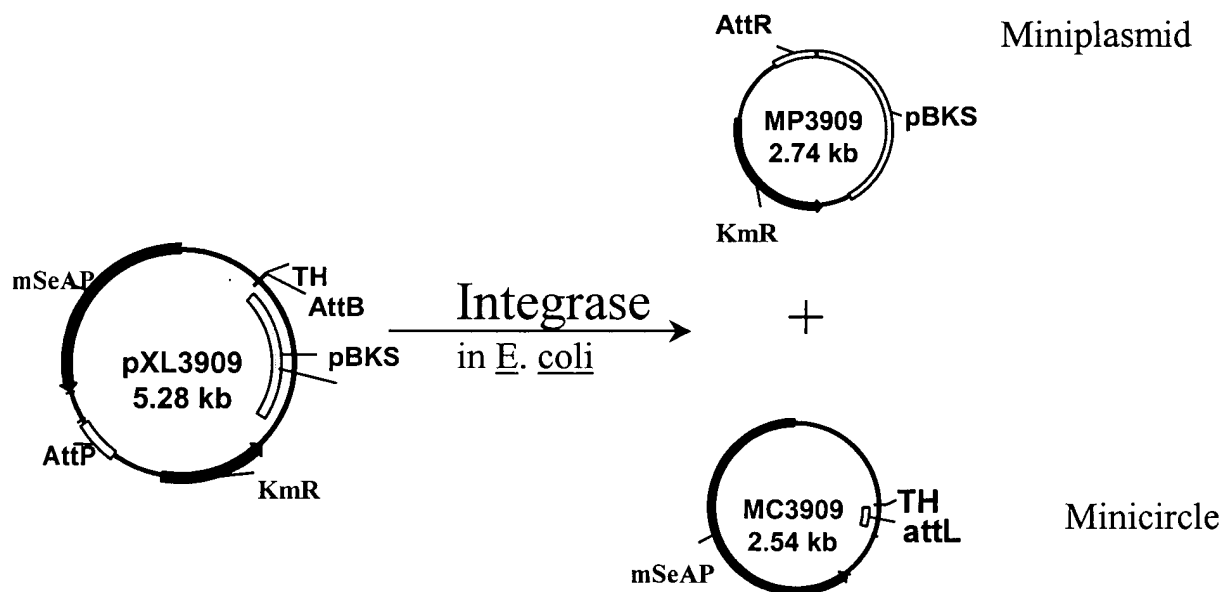


Figure 13



C14018: 5'-AAAGGCGCCAGCTTAAAAAAAATCC-3' (SEQ ID NO: 49)
 7904: 5'-CATACGTCATTATTGACGTC-3' (SEQ ID NO: 50)

Figure 14



TRIPLE HELIX SEQUENCE & attL (119 bp) (SEQ ID NO: 12)

5' - TTCTTTTTTTTCTTGAAGCCTGCTTTTTTATACTAAGTTGGCATTATAAAAAAGCATTGC-3'
 3' - AAGAAAAAAAGAACTTCGGACGAAAAAATATGATTCAACCGTAATATTTTTTCGTAACG-5'

5' - TTATCAATTTGTTGCAACGAACAGGTCAGTCAAAATAAAATCATTATTTGATT-3'
 3' - AATAGTTAAACAACGTTGCTTGCTCCAGTGATAGTCAGTTTTATTTTAGTAATAAACTAA-5'

Figure 15

Genome of *E. coli*
D1210HP
(Gene 1987 56 p145)

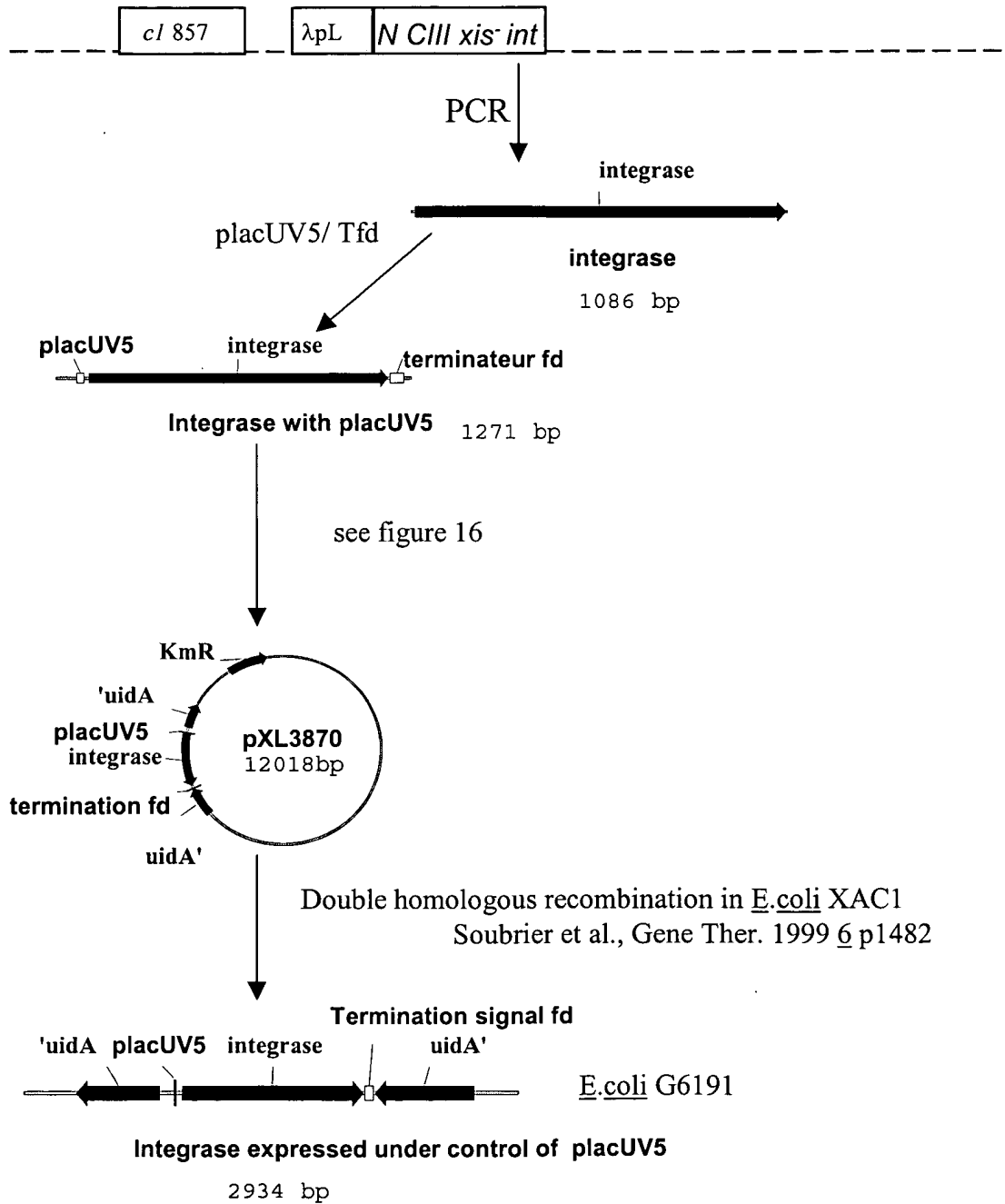
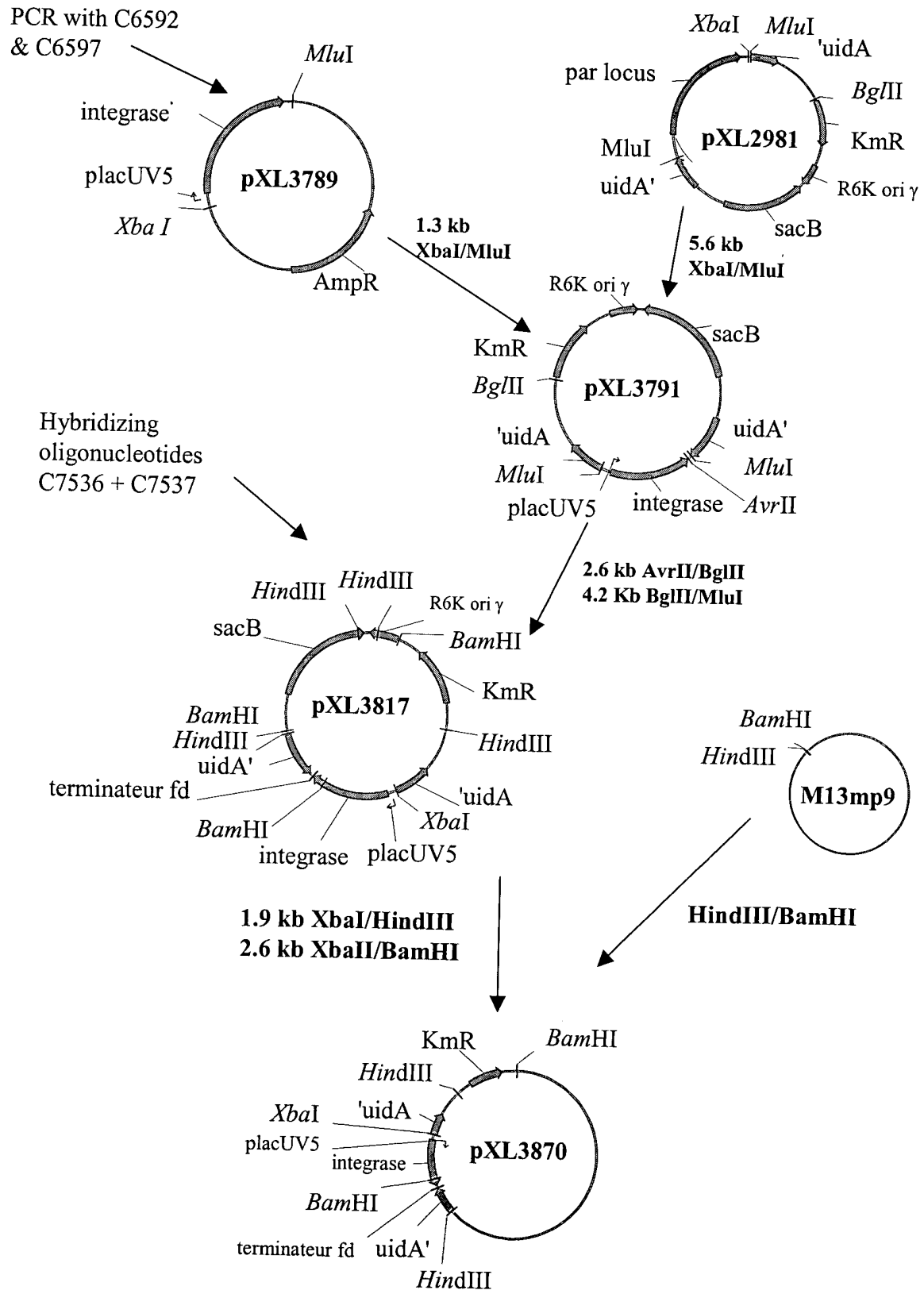
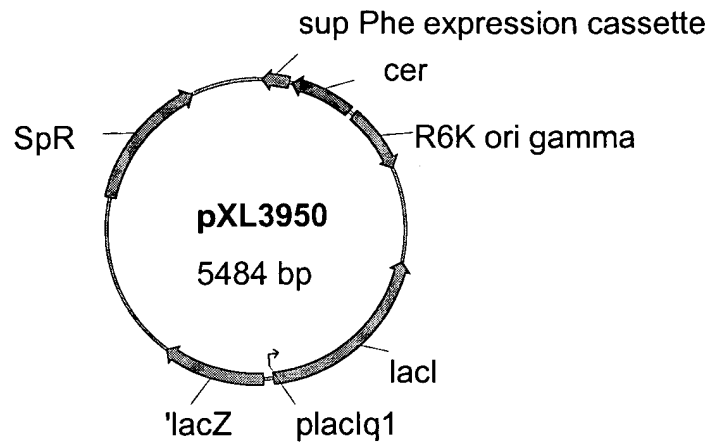


Figure 16



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Figure 17



Transformation in the strain G6191
Selection with spectinomycin

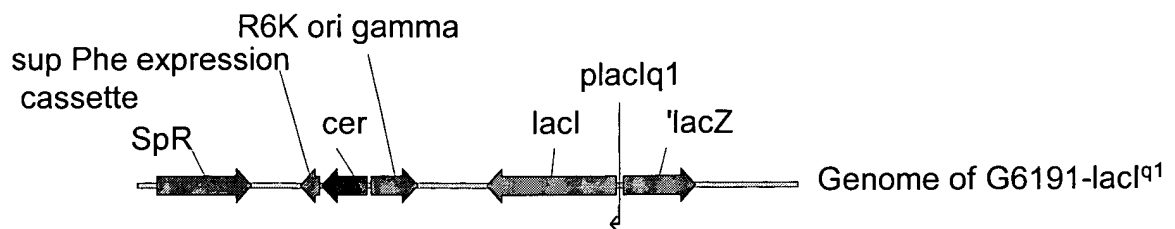
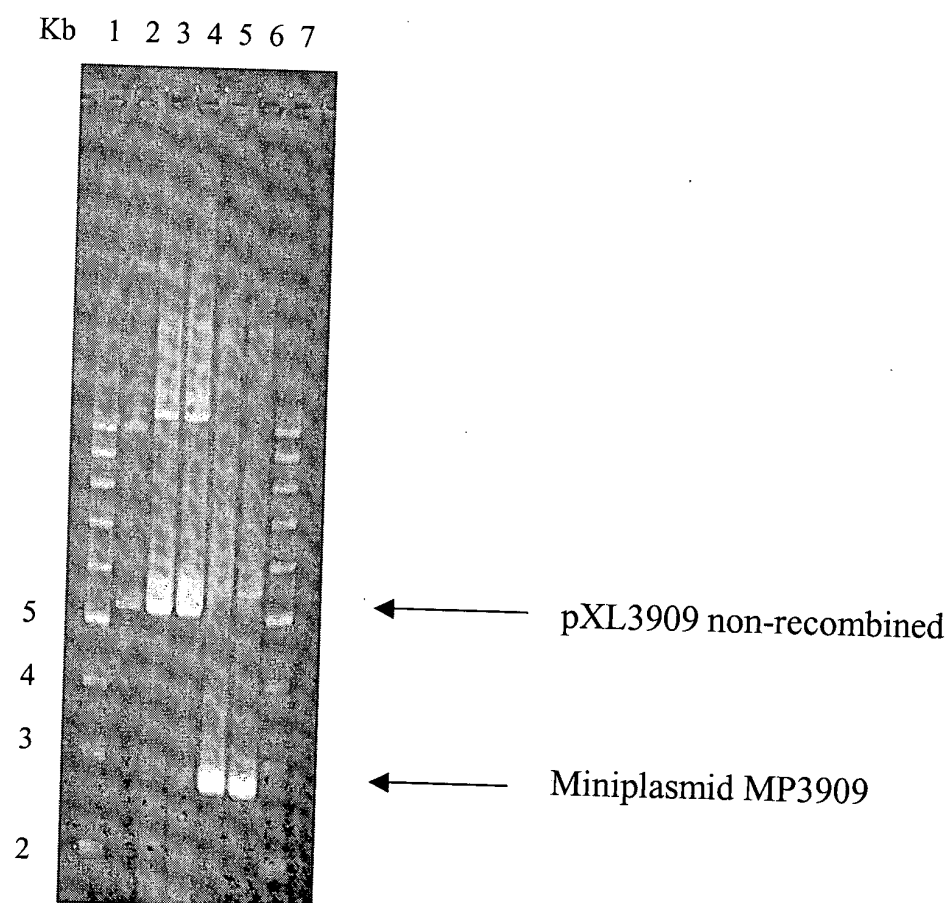
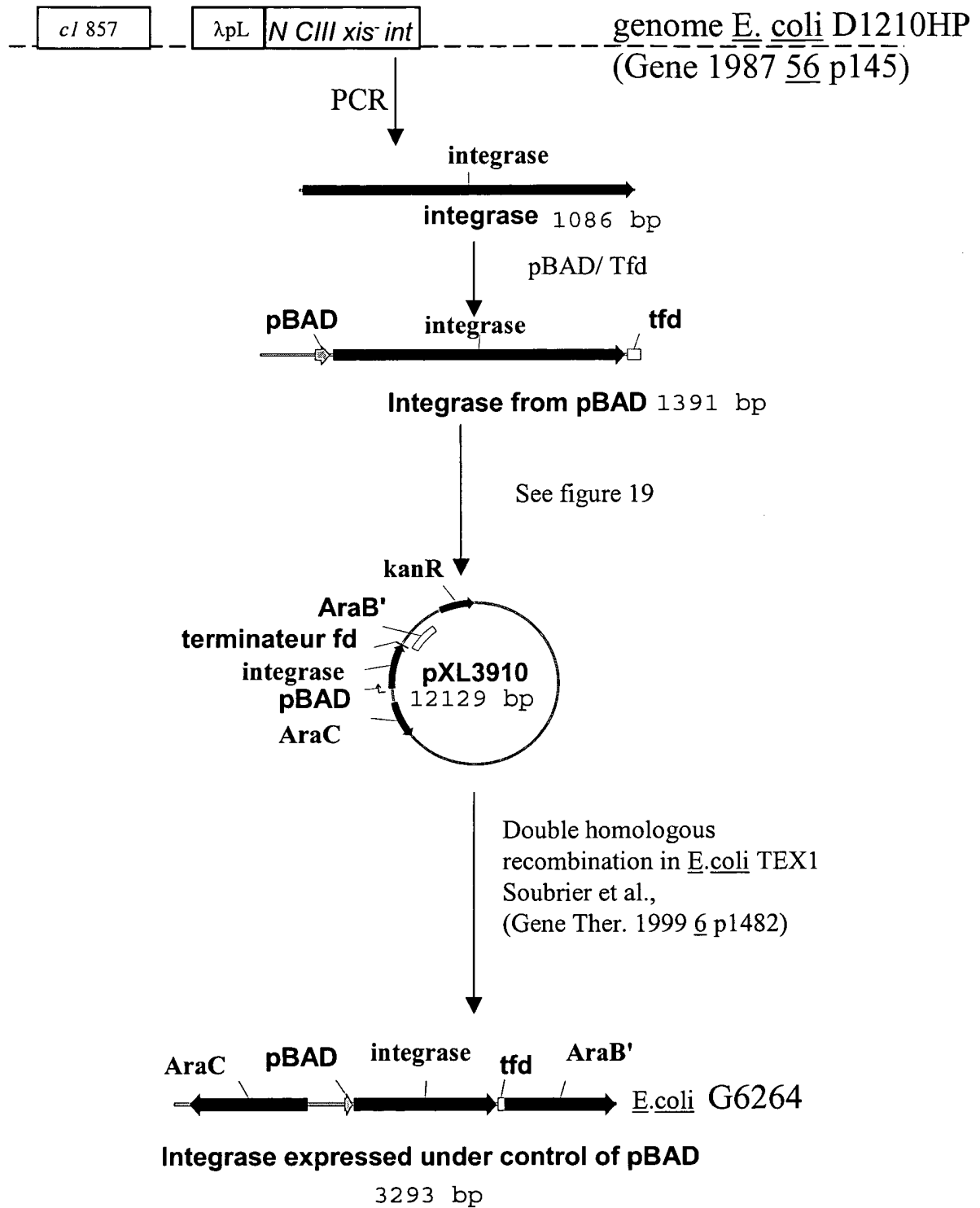


Figure 18



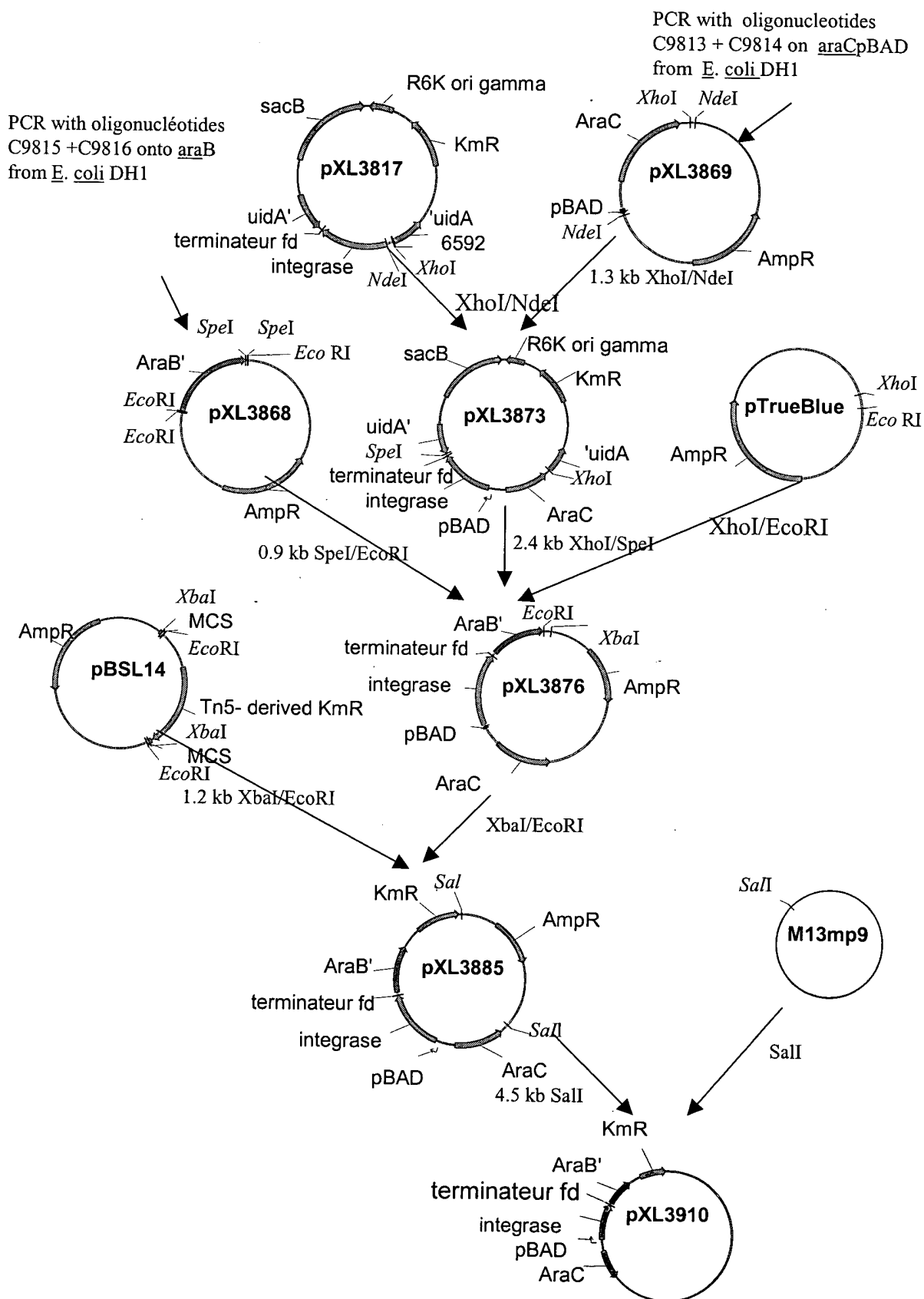
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Figure 19



09581803-101901

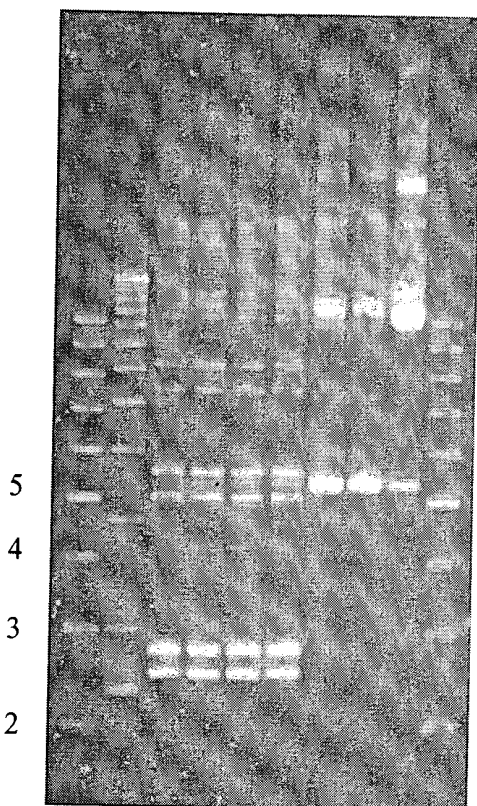
Figure 20



09931803 10901

Figure 21

Kb 1 2 3 4 5 6 7 8 9 10



Dimer of pXL3909

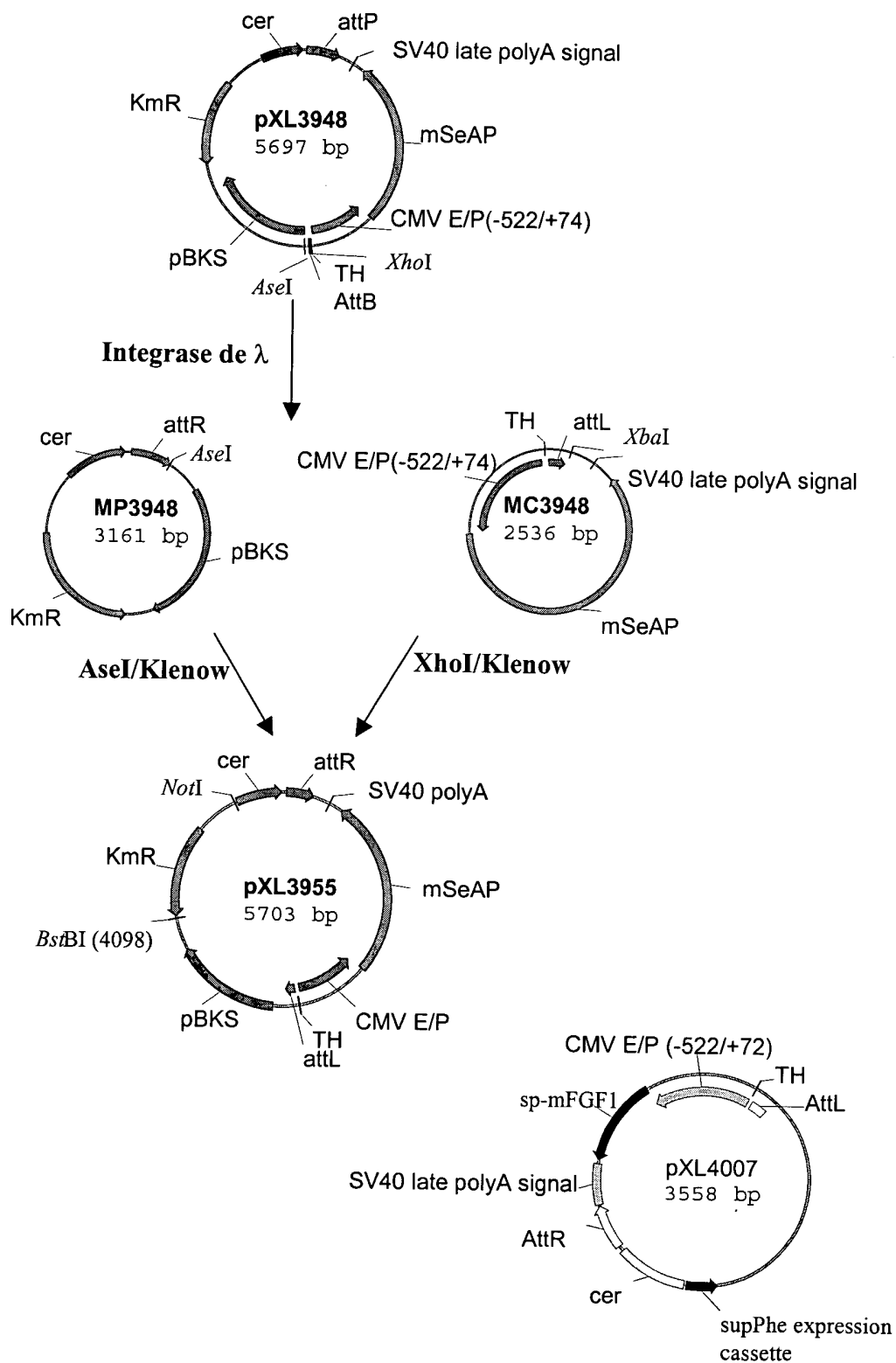
pXL3909

Miniplasmid MP3909

Minicircle MC3909

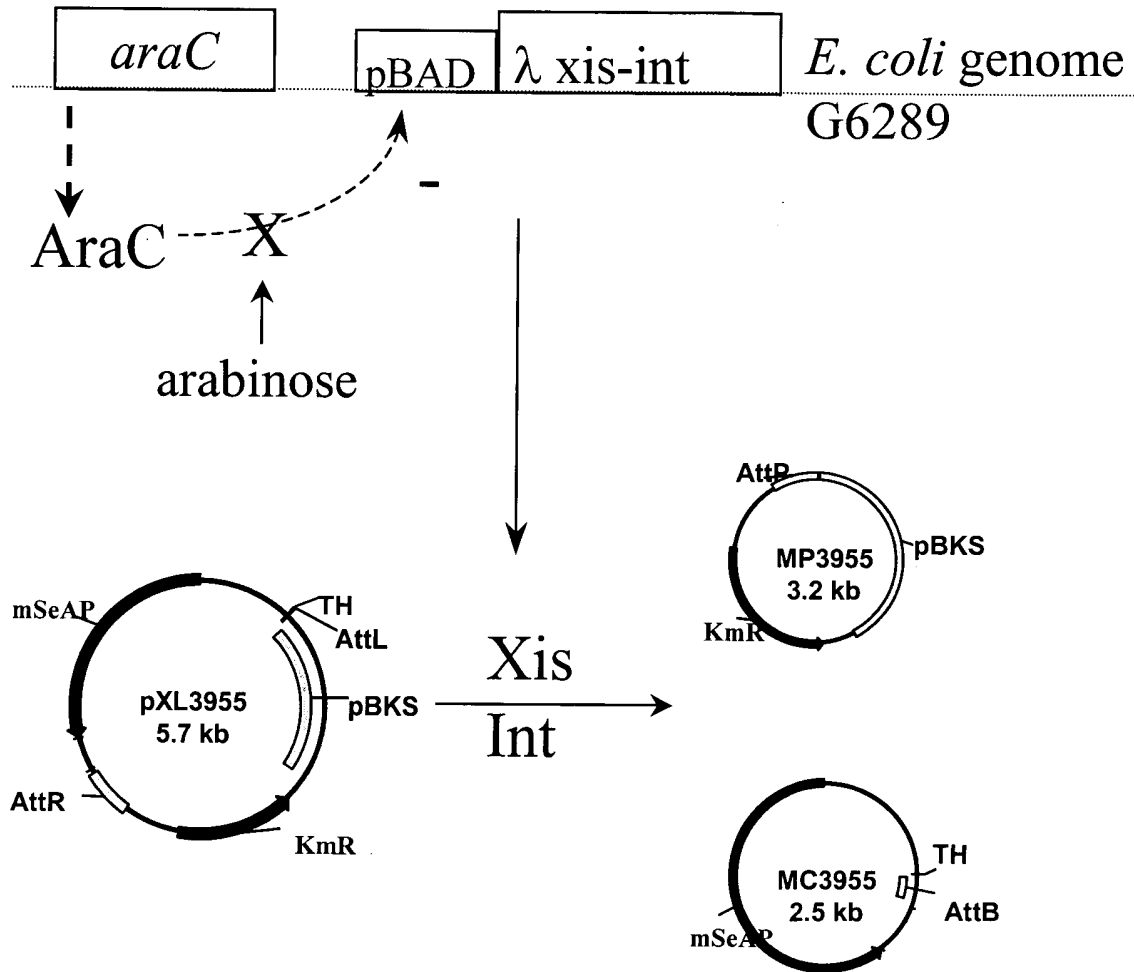
09981803-101901

Figure 22



09981803-101901

Figure 23

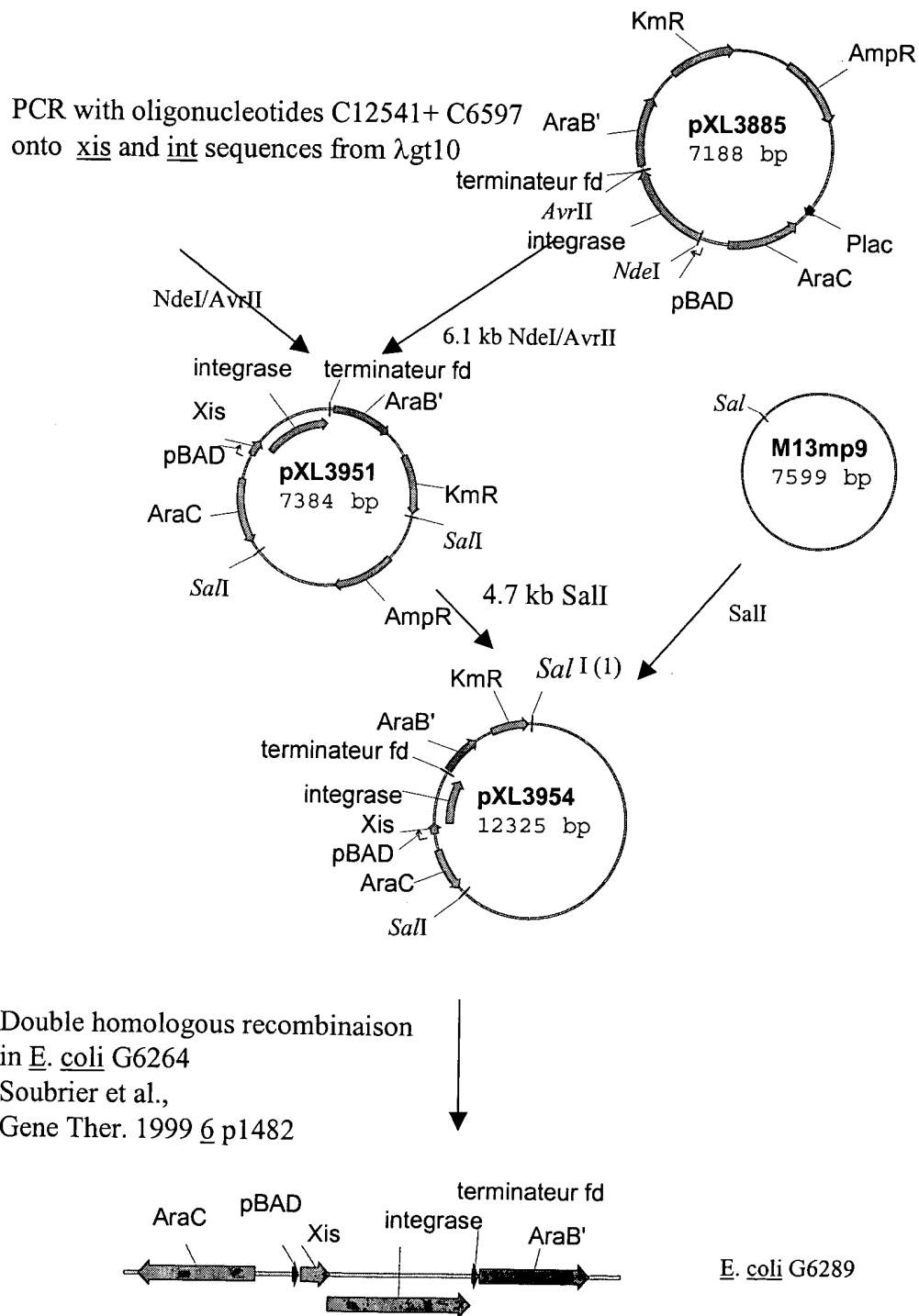


TH et attB (29bp) (SEQ ID NO:13)

5' - TTCTTTTTTTTCTTGAAGCCTGCTTTTTTATACTAACTTGAGC - 3'

3' - AAGAAAAAAGAAGCTTCGGACGAAAAAATATGATTGAACTCG - 5'

Figure 24



Excisionase & Integrase expressed under control of pBAD

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Figure 25

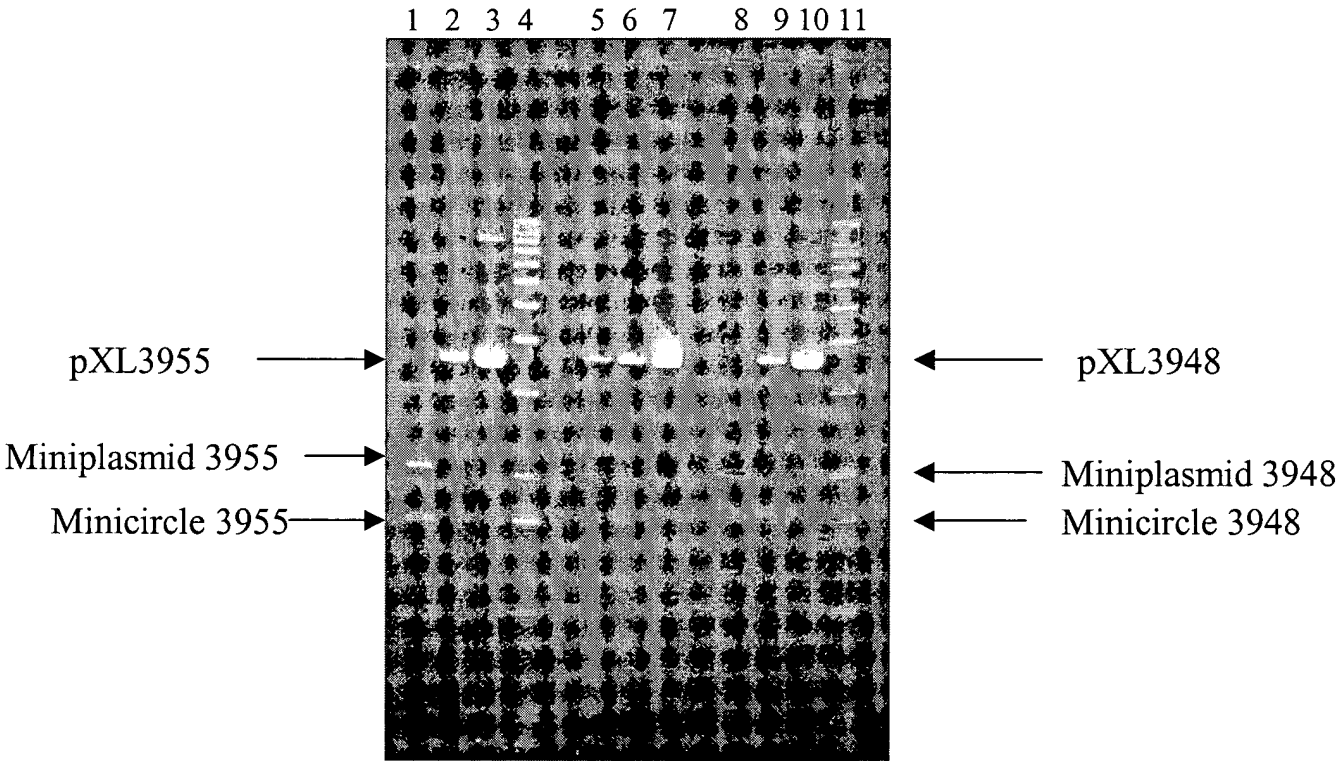
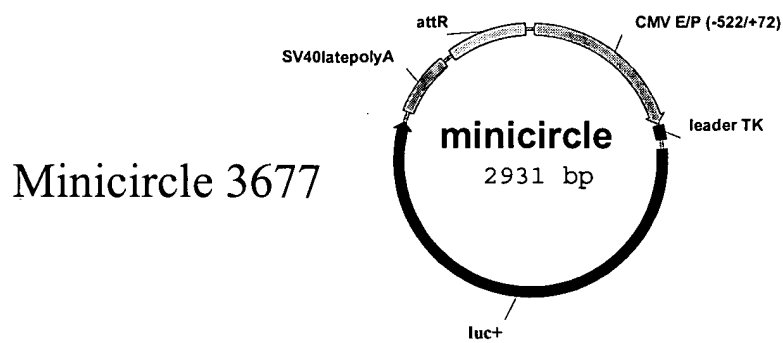
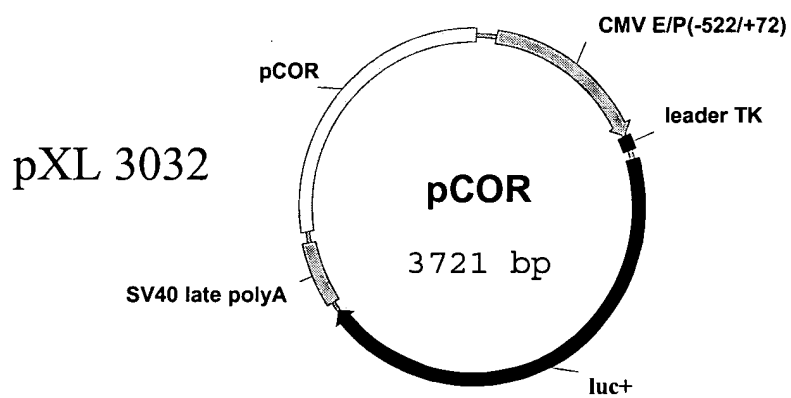
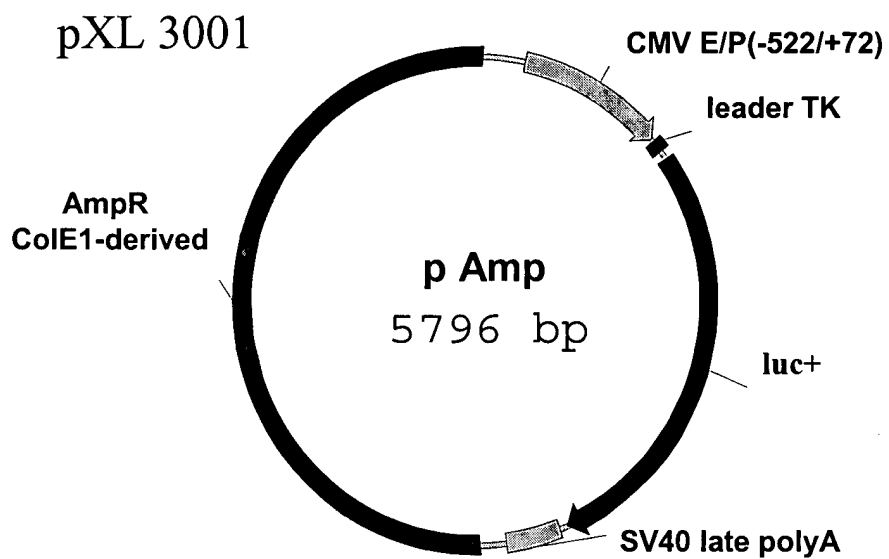


Figure 26



09981803 "101901
T06T0T" E08T8660

Figure 27

